

Historic, archived document

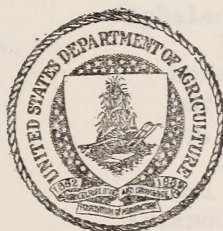
Do not assume content reflects current scientific knowledge, policies, or practices.

THE
PLANT DISEASE REPORTER
ISSUED BY
THE OFFICE OF MYCOLOGY AND DISEASE SURVEY

Supplement 74

Index to Supplement 67 - 73

December 31, 1929



BUREAU OF
PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

INDEX OF ORGANISMS AND NON-PARASITIC DISEASES
IN
THE PLANT DISEASE REPORTER
SUPPLEMENTS LXVII - LXXIII, 1929

Plant Disease Reporter
Supplement 74

December 31, 1929

Prepared by Mary G. Van Meter

- Achlya americana*, poplar, 168.
Actinomyces scabies, beet, 86.
potato, 19, 142, 344.
sp., sweet potato, 50.
Actinopelte japonica, *Quercus marilandica*, 361.
Quercus prinus, 361.
Quercus sp., 361.
Aecidium abundans, snowberry, 165.
compositarum, goldenglow, 164.
cornutum, serviceberry, 161.
porosum, vetch, 155.
Albinism, alfalfa, 150.
sweet clover, 151.
Albino plants, alfalfa, 312.
sweet clover, 318.
Albugo candida, *Lepidium campestre*, 358.
mustard, 68.
turnip, 69.
ipomoeae-panduranae, *Ipomoea hederacea*, 358.
sweet potato, 50.
tragopogonis, *Ambrosia artemisiifolia*, 353.
Artemisia sp., 354.
salsify, 92, 147.
Alternaria brassicae, broccoli, 66.
cabbage, 65, 341.
cauliflower, 66.
citri, citrus, 247.
cotton, 97.
dianthi, *Dianthus caryophyllus*, 383.
fasciculata, *Gladiolus* sp., 349, 384.
radicina, carrot, 86.
solani, eggplant, 87.
potato, 18, 141, 344, 345.
tomato, 37, 145, 346, 347.
sp., *Dahlia* sp., 382.
Paeonia sp., 350.
pepper, 90.
salsify, 92.
tobacco, 101.
wheat, 281.
tenuis, wheat, 126.
Ameris rosicola, rose, 165.
Angular leaf spot lesions, cotton, 97.
Anthracnose, pea, 4.
Aphanomyces euteiches, pea, 3, 12, 139.
raphani, radish, 68.
Aphelenchus apiculatus, *Narcissus* spp., 388.
modestus, *Narcissus* spp., 388.
parietinus, *Narcissus* spp., 389.
sp., *Deutzia longifolia*, 383.
Salvia spp., 392.
Apical leaf roll, potato, 30.
Aplanobacter insidiosum, alfalfa, 308.
michiganense, tomato, 40.
stewartii, corn, 301.
sweet corn, 334.
Arceuthobium americanum, lodgepole pine, 169.
western yellow pine, 169.
cyanocarpum, limber pine, 169.
Armillaria mellea, apple, 325.
cherry, 228.
peach, 222.
Pinus ponderosa, 370.
strawberry, 236.

Arsenical injury, apple, 202.
 Ascochyta abelmoschi, okra, 89.
 althaeina, *Althaea rosea*, 348, 377.
 colorata, strawberry, 161.
 Fragaria vesca, 161.
 compositarum, *Eupatorium purpureum*, 357.
 imperfecta, alfalfa, 311, 337.
 pinodella, pea, 5, 8, 9, 11, 140.
 pisi, pea, 8, 9, 140.
 vetch, 318.
 rhei, rhubarb, 91, 345.
 Ascochyta leaf and pod spot, pea, 4.
 Ascochyta asparagina, *Asparagus plumosus*, 378.
 Ascospora rubi, raspberry, 241.
 Aspergillus, cotton, 97.
 niger, onion, 61.
 Aster yellows, *Ambrosia elatior*, 394.
 Helichrysum bracteatum, 385.

B

Bacillus amylovorus, apple, 192, 325, 328.
 cherry, 228.
 Crataegus oxyacantha, 349, 373.
 loquat, 252.
 Malus floribunda, 374.
 pear, 207, 328, 329.
 Pyrus coronaria, 361.
 quince, 211, 329.
 carotovorus, cabbage, 65.
 carrot, 86.
 celery, 82.
 Iris sp., 350.
 Iris spp., 386.
 phytophthorus, potato, 21, 344, 345.
 radiculicola, (see *Rhizobium leguminosarum*), 137, 141.
 tracheiphilus, cantaloupe, 342.
 cucumber, 70, 343.
 muskmelon, 73.
 squash, 78.
 watermelon, 80.
 Bacteria, cotton, 97.
 Bacterial blight, pea, 13.
 Bacterial leaf spot, *Berberis thunbergii*, 348.
 strawberry, 161.
 Bacterium angulatum, tobacco, 99.
 apii, celery, 83.
 atrofaciens, wheat, 281.
 beticolum, sugar beet, 108.
 campestre, Brussels sprouts, 66.
 cabbage, 63, 341.
 cauliflower, 66.
 kale, 68.
 radish, 68.
 turnip, 69.
 cannae, *Canna* sp., 381.
 cerasi, cherry, 228.
 citri, citrus, 248.
 coronafaciens, oats, 296.
 delphinii, *Delphinium* sp., 382.
 Delphinium spp., 349.
 dissolvens, corn, 303.
 holci, sorghum, 133.
 Sudan grass, 134.
 hyacinthi, *Hyacinthus* sp., 386.
 juglandis, walnut, 256.
 lachrymans, cucumber, 71.
 muskmelon, 76.
 maulicola, cabbage, 65.
 cauliflower, 66.
 horseradish, 67.
 malvacearum, cotton, 95.
 marginatum, *Gladiolus* sp., 384.
 medicaginis, alfalfa, 311.
 medicaginis phaseolicola, bean, 53.
 mori, mulberry, 247.
 pelargoni, *Pelargonium* sp., 390.
 phaseoli, bean, 52, 340.
 lima bean, 57.
 phaseoli sojense, soybean, 316.
 pisi, pea, 2, 4, 8.
 pruni, cherry, 228.
 peach, 215, 329.
 plum, 225.
 prune, 225.
 puerariae, kudzu, 319.
 solanacearum, eggplant, 87.
 pepper, 90.
 potato, 23.
 tobacco, 101.
 tomato, 41, 347.
 sp., alfalfa, 308.
 Begonia sp., 379.
 Cyclamen sp., 382.
 filbert, 257.
 Hyacinthus sp., 386.
 soybean, 340.
 sugar cane, 104.
 spp., lettuce, 146.
 syringae, *Syringa vulgaris*, 393.
 tabacum, tobacco, 98.

- translucens, barley, 132, 292.
 translucens undulosum, wheat, 125, 275.
 trifoliorum, white clover, 314.
 tumefaciens, almond, 257.
 Antirrhinum majus, 378.
 apple, 195.
 apricot, 230.
 beet, 86.
 blackberry, 243.
 Calycanthus sp., 380.
 cherry, 229.
 Euonymus sp., 384.
 grape, 232.
 loganberry, 244.
 peach, 222.
 pear, 210.
 pecan, 255.
 plum, 225.
 prune, 225.
 raspberry, 241, 331.
 Rosa spp., 391.
 Sorbus aucuparia, 376.
 sugar beet, 108.
 vesicatorium, pepper, 90.
 tomato, 46.
 vignae, cowpea, 315.
 lima bean, 57.
 viridifaciens, (see B. vignae) 57.
 viridilividum, lettuce, 83.
 woodsii, Dianthus caryophyllus, 383.
 Balansia hypoxylon, Danthonia compressa, 356.
 Basisporium gallarum, corn, 303.
 Bitter pit, apple, 156, 198, 327.
 pear, 210.
 Black heart, apple, 156.
 celery, 83.
 potato, 34.
 Blackleaf, pea, 4.
 Black lenticels, apple, 205.
 Black pit, pecan, 256.
 Black point, wheat, 281.
 Black root, safflower, 154.
 strawberry, 235.
 Black root rot, pea, 4.
 Blast, Avena fatua, 319.
 oats, 130, 297.
 sorghum, 134.
 wheat, 128.
 Blastocladiella ramosa, poplar, 168.
 Blight, Populus tremuloides, 167.
 Blossom-end rot, pepper, 91.
 tomato, 41, 347.
 Boll rots, cotton, 96.
 Botryosphaeria fuliginosa, Populus maximowiczii, 375.
 ribis, currant, 244, 311.
 Populus nigra, 375.
 Botrytis allii, onion, 59, 60.
 byssoides, onion, 59, 60.
 cinerea, bean, 56.
 onion, 60.
 parsnip, 147.
 pepper, 90.
 raspberry, 241.
 Rhododendron spp., 391.
 Rubus sp., 361.
 strawberry, 235.
 sunflower, 153.
 Syringa vulgaris, 393.
 hypophylla, Asclepias syriaca, 354.
 paeoniae, Paeonia sp., 350.
 Paeonia spp., 389.
 sp., Aconitum, 377.
 Azalea kaempferi, 378.
 Caragana arborescens, 372.
 Chrysanthemum sp., 381.
 Clarkia sp., 381.
 currant, 245.
 Feijoa sellowayana, 251.
 onion, 60.
 quince, 211.
 Rosa spp., 391.
 spp., lettuce, 83.
 Lilium spp., 388.
 onion, 59.
 squamosa, onion, 59, 60.
 tulipae, Tulipa sp., 393.
 Bramble streak, black raspberry, 159.
 Bremia lactucae, lettuce, 83.
 Briar bud, strawberry, 237.
 Brooming disease, Robinia pseudacacia, 352.
 Brown bark spot, apple, 156, 205.
 pear, 157, 210.
 sour cherry, 157.
 Brown blight, lettuce, 84.
 Brown blotch, pear, 210, 328.
 Brown leaf spot, wheat, 128.
 Brown root rot, tobacco, 102.
 Brown spots, cherry, 229.
 Bud rot, coconut, 258.
 Burr knot, apple, 205, 327.

Caconema radiculicola, *Actinidia* spp.,

377.

alfalfa, 311.

Althaea rosea, 377.

bean, 56.

Begonia sp., 379.

Buddleia stenostachys, 379.

carrot, 87.

Catalpa ovata, 373.

cauliflower, 66.

celery, 83.

Chrysanthemum sp., 381.

Clematis integrifolia, 381.

Clerodendron spp., 381.

clover, 314.

cotton, 96.

cucumber, 73.

Cyclamen sp., 382.

Dahlia sp., 382.

Dianthus caryophyllus, 383.

Diervilla spp., 383.

fig, 251.

Gardenia florida, 384.

horseradish, 67.

Iris spp., 386.

lettuce, 83.

Ligustrum spp., 387.

muskmelon, 76.

Nandina domestica, 374.

Paeonia spp., 389.

pea, 12.

peach, 222.

pepper, 91.

Petunia hybrida, 390.

Philadelphus sp., 390.

potato, 32.

Schinus molle, 376.

strawberry, 236.

sweet potato, 50.

Syringa vulgaris, 393.

tobacco, 102.

tomato, 45, 145.

turnip, 69.

watermelon, 80.

Caeoma nitens, *Rubus* sp., 361.

Calico, bean, 138.

potato, 145.

California scaly bark, citrus, 249.

Calypsotheca columnaris, alpine fir, 171.

great silver fir, 171

huckleberry, 162.

Canker, peach, 222.

Cat face, tomato, 47.

Cenangella deformata, juniper, 170.

Cenangium abietis, western yellow pine, 169.

piniphilum, western yellow pine, 169.

populneum, *Populus trichocarpa*, 375.

sp., poplar, 168.

willow, 168.

Center rot, tomato, 48.

Cephalobus elongatus, oats, 297.

spp., *Deutzia longifolia veitchii*, 383.

Cephalosporium acremonium, corn, 303.

field corn, 133.

sweet corn, 133.

Cephalothecium roseum, peach, 222.

quince, 211.

Ceratostomella fimbriata, sweet potato, 48.

Cercospora althaeina, *Malva rotundifolia*, 359.

ampelopsidis, *Ampelopsis tricuspidata*, 377.

Psedera quinquefolia, 351.

angulata, currant, 245, 332.

apii, celery, 82, 342.

parsley, 90.

apii carotae, carrot, 87, 342.

apii pastinacae, parsnip, 90, 343.

armoraciae, horseradish, 67, 343.

asparagi, asparagus, 86.

atromaculans, *Aralia spinosa*, 354.

beticola, beet, 86, 341.

red beet, 148.

spinach, 92.

sugar beet, 108.

capsici, pepper, 91.

cercidicola, *Cercis canadensis*, 355.

circumscissa, cherry, 229.

plum, 225.

prune, 225.

citrullina, watermelon, 80.

clavata, *Asclepias incarnata*, 354.

Asclepias syriaca, 354.

concors, potato, 344.

cruenta, bean, 56.

cucurbitae, pumpkin, 77, 345.

davisii, sweet clover, 317.

white sweet clover, 338.

depazeoides, *Sambucus canadensis*, 362.

diazu, soybean, 316.

diospyri, *Diospyros virginiana*, 356.

- dubia, *Chenopodium album*, 355.
 elongata, *Dipsacus sylvestris*, 357.
 fici, fig, 251.
 fusca, pecan, 255.
 fusimaculans, *Panicum dichotomi-*
 florum, 359.
 galii, *Galium parisiense*, 357.
 helveola, white clover, 339.
 hibisci, okra, 89.
 hydropiperis, *Polygonum hydropiper*,
 360.
 lycii, *Lycium halimifolium*, 358.
 lythracearum, (see *Mycosphaerella*
 lythracearum), 254.
 magnoliae, *Magnolia acuminata*, 359.
 mali, apple, 203.
 medicaginis, alfalfa, 311, 337.
 hop clover, 338.
 red clover, 314, 338.
 nicotianae, tobacco, 102.
 omphakodes, *Phlox* sp., 350.
 Phlox spp., 391.
 personata, peanut, 90.
 racemosa, *Ambrosia trifida*, 354.
 rhododendri, *Rhododendron* spp., 391.
 rhuina, *Rhus copallina*, 361.
 rosicola, *Rosa* sp., 352.
 rubi, *Rubus* sp., 361.
 salviicola, sage, 346.
 smilacina, *Smilax hispida*, 362.
 sordida, *Tecoma radicans*, 362.
 sp., cowpea, 315.
 fig, 251.
 mulberry, 247.
 Pittosporum sp., 391.
 sweet clover, 317.
 turnip, 69.
 symphoricarpi, snowberry, 165.
 teucrii, *Teucrium canadense*, 362.
 varia, *Viburnum* sp., 353.
 zebrina, alsike clover, 314.
Cercospora albo-maculans, Chinese
 cabbage, 67.
 rutabaga, 345.
 turnip, 69.
 cana, *Erigeron ramosus*, 357.
 Erigeron sp., 357.
Cerotelium fici, fig, 251.
 Chlorosis, apple, 205.
 bean, 57.
 citrus, 248.
 peach, 222.
 plum, 226.
 poplar, 168.
 prune, 226.
 Rosa spp., 392.
Chrysomyxa weirii, spruce, 170.
Cladosporium carpophilum, apricot,
 230.
 cherry, 229.
 peach, 214, 329, 330.
 cucumerinum, cucumber, 72.
 effusum, pecan, 254.
 fasciculatum, *Magnolia* sp., 374.
 fulvum, tomato, 39.
 herbarum, *Agropyron repens*, 353.
 wheat, 281.
 herbarum phaseoli, bean, 137.
 humile, *Acer rubrum*, 353.
 Acer sp., 353.
 paeoniae, *Paeonia* spp., 390.
 sp., *Asparagus plumosus*, 378.
 Calendula officinalis, 379.
 Hydrangea sp., 386.
 Lilium spp., 388.
 pea, 8.
 Pelargonium sp., 390.
 sorghum, 339.
 Symphoricarpos spp., 393.
 Viburnum sp., 353.
 Viburnum spp., 394.
Claviceps purpurea, *Agropyron cris-*
 tatum, 133.
 Agropyron repens, 319.
 Agropyron spp., 135.
 barley, 132, 292.
 Phalaris arundinacea, 319.
 rye, 133, 283, 335.
 wheat, 127, 274, 336.
 sp., *Elymus* sp., 319.
 Paspalum sp., 319.
Clitocybe tabescens, peach, 222.
Coccomyces hiemalis, cherry, 227, 330.
 choke cherry, 158.
 Prunus pennsylvanica, 330, 360.
 Prunus serotina, 330, 360.
 sweet cherry, 157.
 prunophorae, plum, 225.
 prune, 225.
Coleosporium carneum, *Vernonia nove-*
 boracensis, 363.
 elephantopodis, *Elephantopus caro-*
 linianus, 357.
 Elephantopus sp., 394.
 inconspicuum, *Coreopsis tripteris*,
 356.

- solidaginis, *Aster macrophyllus*, 355.
Aster puniceus, 355.
Aster sp., 355.
Callistephus chinensis, 379.
 lodgepole pine, 169.
Pinus resinosa, 370.
Solidago caesia, 362.
Solidago sp., 362.
Colletotrichum amphicarphae, *Amphicarpha monoica*, 354.
Accr spp., 371.
 circinans, onion, 61.
 elasticae, fig, 251.
 falcatum, sugar cane, 104.
gloeosporioides, avocado, 250.
 citrus, 248.
 mango, 252.
 graminicolum, barley, 292.
 Holcus sorghum sudanensis, 320.
 oats, 130, 296.
 rye, 284.
 wheat, 274.
 lagenarium, cantaloupe, 342.
 cucumber, 71, 343.
 muskmelon, 74.
 watermelon, 79, 347.
 lindemuthianum, bean, 51, 136, 341.
 lima bean, 57.
 lineola, broom corn, 334.
 sorghum, 339.
 linicolum, flax, 154.
 malvarum, *Althaea rosea*, 377.
 nigrum, pepper, 91.
 phomoides, tomato, 46, 347.
 pisi, pea, 9.
 sp., date, 251.
 Holcus halepensis, 319.
 Hydrangea sp., 386.
 Ligustrum spp., 387.
 mango, 252.
 Paeonia spp., 390.
 strawberry, 236.
 spinaciae, spinach, 92.
 trifolii, alfalfa, 311.
 clover, 313.
 red clover, 338.
Coniothyrium sp., *Viburnum* spp., 394.
 Copper injury, apple, 202.
 Core molds, apple, 205.
 Cork and drought spot, apple, 205.
Corticium koleroga, fig, 251.
 pear, 210.
 vagus, cabbage, 65.
 cotton, 97.
 lettuce, 84.
 peanut, 90.
 potato, 21, 142, 344.
 sweet clover, 151, 318.
 tobacco, 102, 340.
 tomato, 45.
Coryneum beijerinckii, almond, 257.
 cherry, 229.
 peach, 220.
 sp., *Cupressus* spp., 367.
 Cracking of fruit, apple, 205.
Creonectria purpurea, chokecherry, 158.
 Crimps, strawberry, 237.
 Crinkle-joint, rye, 133, 284.
 wheat, 127, 281.
Cronartium coleosporioides, lodgepole pine, 169.
 comptoniae, *Pinus nigra*, 369.
 filamentosum, western yellow pine, 170.
 harknessii, lodgepole pine, 169.
 Pinus ponderosa, 370.
 pyriforme, lodgepole pine, 169.
 western yellow pine, 169.
 ribicola, *Pinus monticola*, 368.
 Pinus strobus, 370.
 Ribes, 369.
 Ribes petiolare, 369.
 stalactiforme, lodgepole pine, 169.
 western yellow pine, 170.
 Crown rots, alfalfa, 310.
Crucibulum vulgare, juniper, 170.
Cryptosphaeria millepunctata, poplar, 168.
Cryptosporella anomala, filbert, 257.
 viticola, grape, 232.
 Curly mosaic, potato, 144.
 Curly top, alfalfa, 312.
 bean, 56.
 beet, 86.
 cucumber, 73.
 Helichrysum bracteatum, 385.
 lima bean, 58.
 mangel-wurzel, 148.
 muskmelon, 76.
 pumpkin, 77.
 red beet, 148.
 squash, 77, 78.
 sugar beet, 107, 148.
 tomato, 38.
 watermelon, 81.

Cuscuta arvensis, carrot, 87.
 onion, 147.
gronovii, onion, 147.
sp., alfalfa, 151, 311.
Cylindrocladium scoparium, *Rosa spp.*,
 391.
Cylindrosporium acerinum, maple, 167.
apocyni, *Apocynum cannabinum*, 354.
betulae, *Betula sp.*, 372.
brevispina, hawthorn, 162.
caryigenum, pecan, 255.
cercosporoides, *Liriodendron tulip-*
ifera, 358, 374.
cicutae, *Cicuta maculata*, 356.
clematidis, *Clematis virginiana*,
 356.
filipendulae, *spiraea*, 166.
pomi, apple, 325, 328.
salicifoliae, *spiraea*, 166.
salicinum, *Salix sp.*, 362.
sp., alder, 166.
Quercus spp., 375.
Cystospora batata, (see *Actinomyces*
sp.), 50.
Cytospora chrysosperma, *Acer rubrum*,
 371.
 chokecherry, 158.
 maple, 167.
 mountain ash, 167.
 poplars, 167.
Populus lasiocarpa, 375.
Populus spp., 375.
Salix babylonica, 376.
Salix sp., 376.
 vine maple, 167.
elaeagni, *Elaeagnus angustifolia*,
 373.
euonymella, *Euonymus sp.*, 384.
pinastri, *Pinus sylvestris*, 370.
sp., apple, 203.
spp., apple, 156.
umbrina, alder, 166.

D

Daldinia concentrica, river birch,
 167.
Darluka filum, *Juncus tenuis*, 358.
Dasyscypha calycina, *Pseudotsuga*
douglasii, 370.
fuscosanguinea, western larch,
 170.
 western white pine, 169.

Dendrophoma obscurans, *Fragaria*
chiloensis, 236.
 strawberry, 236, 332.
Dermatea populina, poplar, 168.
 Diamond canker, plum, 226.
 prune, 226.
Diaporthe phaseolorum, lima bean, 57.
umbrina, *Rosa spp.*, 391.
Diatrype bullata, poplar, 168
Dicaeoma allenii, buffaloberry, 163.
clematidis, columbine, 163.
Didymellina iridis, iris, 164.
Iris sp., 350.
Iris spp., 386.
Didymosphaeria brunneola, *Asparagus*
plumosus, 378.
euryasca, lodgepole pine, 169.
manitobensis, black raspberry, 159.
Rubus leucodermis, 159.
 Dieback, citrus, 248.
Dimerosporium collinsii, *Amelanchier*
canadensis, 354.
serviceberry, 161.
populi, poplar, 168.
Diplocarpon carliana, *Fragaria chilo-*
ensis, 234.
Fragaria cuneifolia, 234.
 strawberry, 161, 234.
rosae, *Rosa sp.*, 352.
Rosa spp., 392.
 rose, 165.
Diplodia gossypina, cotton, 97.
longispora, *Quercus rubra*, 376.
natalensis, citrus, 248.
sp., fig, 252.
 watermelon, 80.
tubericola, sweet potato, 50.
zeae, corn, 301, 333, 334.
Dothichiza populea, *Populus lasio-*
carpa, 375.
Populus spp., 375.
 Downy mildew, pea, 4, 13.
 Drought injury, potato, 34.
 Dwarf, strawberry, 237.

E

Ear rots, corn, 299.
Echinodontium tinctorium, Alpine
 fir, 171.
 Douglas fir, 171.
 great silver fir, 171.
 hemlock, 171.

- spruce, 170.
Endothia parasitica, *Castanea dentata*,
 348, 372.
Entyloma compositarum, sunflower, 153.
 polysporum, sunflower, 153.
Epichloe typhina, grasses, 320.
Epicoocum neglectum, sweet corn, 334.
Erostrothea multiformis, *Lathyrus*
 odoratus, 387.
Erwinia amylovora, apple, 155.
 pear, 157.
 plum, 158.
 atroseptica, potato, 143.
Erysiphe cichoracearum, *Ambrosia*
 trifida, 354.
 cucumber, 73.
Cucumis melo chita, 75.
Cucumis melo culta, 75.
Cucumis sativus, 75.
Dahlia sp., 382.
Eupatorium purpureum, 357.
 muskmelon, 75.
Phlox sp., 350.
 pumpkin, 77, 345.
 rhubarb, 91.
Rudbeckia laciniata, 392.
 squash, 78.
 sunflower, 153.
graminis, *Agropyron* spp., 135.
 barley, 291.
 oats, 296.
 rye, 284, 335.
 wheat, 126, 276, 336.
polygoni, *Aconitum*, 377.
 alsike clover, 152.
Aquilegia sp., 348, 378.
 bean, 56.
 Chinese cabbage, 67.
 clover, 314.
 columbine, 163.
 cowpea, 316.
Delphinium sp., 382.
Delphinium spp., 349.
Lathyrus odoratus, 350.
 lima bean, 56.
 pea, 8, 141.
 red clover, 152, 338.
 serviceberry, 161.
 turnip, 69.
 vetch, 155.
 white clover, 152.
Eutettix tenella, sugar beet, 148.
 tomato, 38.
Eutypella sorbi, mountain ash, 167.
Exoascus communis, plum, 158.
 decipiens, plum, 158.
 deformans, almond, 257.
 peach, 159, 213, 329, 330.
 mirabilis, plum, 225.
 pruni, plum, 158, 224, 330.
 prune, 224.
 spp., alder, 166.
Exobasidium vaccinii, *Azalea indica*,
 378.
Azalea kaempferi, 378.
 cranberry, 246.
 huckleberry, 162.
 viciae, *Vicia villosa*, 318.
Exosporium palmivorum, date, 251.
- F
- Fabraea maculata*, pear, 157, 209,
 328, 329.
 quince, 211, 329.
 serviceberry, 161.
 False blossom cranberry, 246.
 False canker, citrus, 248.
 Fertilizer injury, potato, 34.
 Flap tumor, apple, 205, 327.
 Flooding damage, onion, 61.
Fomes annosus, *Picea engelmanni*, 368.
 everhartii, poplar, 168.
 fomentarius, apple, 156.
 igniarius, alder, 166.
 birch, 166.
nigrolimitatus, *pinus monticola*,
 369.
 officinalis, Douglas fir, 171.
 western larch, 170.
 pinicola, lodgepole pine, 169.
 spruce, 170.
 rimosus, *Robinia pseudacacia*, 352.
 Foot rot, pea, 3, 5, 12, 13.
 wheat, 128, 276, 277.
 French bud, strawberry, 237.
 Frenching, citrus, 248.
 tobacco, 102.
 Frost injury, apple, 201.
 potato, 34.
 Fruit cracking, apple, 156.
 tomato, 48.
 Fruit pimple, watermelon, 81.
 Fruit rots, raspberry, 242.
 Fruit spot, tomato, 45.
Fumago vagans, plum, 225.

prune, 225.
 Fumigation injury, tomato, 48.
Fusarium affine, tobacco, 102.
 anguioides, potato, 143.
 annuum, pepper, 91.
 arthrosporioides, potato, 143.
 atroseptica, wheat, 126.
 batatatis, sweet potato, 49.
 bullatum, potato, 143.
 clavatum, potato, 143.
 coeruleum, potato, 143.
 conglutinans, cabbage, 62, 341.
 cauliflower, 66
 collard, 67.
 conglutinans callistephi, *Callistephus chinensis*, 348, 380.
 culmorum, corn, 333.
 potato, 143.
 discolor, potato, 143.
 discolor sulphureum, potato, 143.
 gibbosum, potato, 143.
 lini, flax, 154, 305.
 lycopersici, tomato, 35, 145, 347.
 malli, onion, 59.
 martii phaseoli, bean, 55, 137, 341.
 martii pisi, pea, 11, 140.
 moniliforme, corn, 299, 333.
 cotton, 97.
 niveum, muskmelon, 76.
 watermelon, 79, 347.
 orthoceras pisi, pea, 140.
 oxysporum asclerotium, potato, 143.
 oxysporum gladioli, *Gladiolus* sp., 384.
 oxysporum medicaginis, alfalfa, 311.
 oxysporum nicotianae, tobacco, 102.
 oxysporum, potato, 22, 142, 344, 345.
 sweet potato, 50.
 parasiticum, *Agrostis alba*, 353.
 pea, 11.
 sclerotiioides brevius, potato, 143.
 solani, potato, 143.
 sp., *Abies* sp., 367.
 celery, 83.
 Chrysanthemum sp., 381.
 corn, 333, 334.
 cowpea, 316.
 Dianthus caryophyllus, 383.
 Lilium spp., 388.
 Matthiola sp., 388.
 Narcissus spp., 389.
 Paeonia spp., 390.
 Picea spp., 367.

 squash, 78.
 Telanthera bettzickiana, 393.
 wheat, 281
 spp., alfalfa, 311.
 bean, 55.
 Callistephus chinensis, 380.
 corn, 299.
 Helichrysum sp., 385.
 potato, 142.
 turnip, 69.
 subpallidum roseum, potato, 143.
 subulatum brevius, potato, 143.
 trichothecioides, potato, 143.
 vasinfectum, cotton, 94.
 okra, 89.
 wheat, 276, 278, 279.
Fusarium wilt, pea, 3, 5, 13, 14.
Fusicladium alopecuri, wheat, 124, 126, 281.
 dendriticum orbiculatum, *Sorbus americana*, 376.
 pisicola, pea, 9, 140.
 tremulae, *Populus* spp., 375.
Fusisporium rubi, blackberry, 243.
 dewberry, 244.

G

Giant hill, potato, 145.
Gibberella, corn, 333, 334.
 saubinetii, barley, 287.
 corn, 299, 333.
 oats, 296.
 rye, 283.
 wheat, 127, 272, 336, 337.
Gloeodes pomigena, apple, 196, 326.
 pear, 210, 328.
Gloeosporium ailanthi, *Ailanthus glandulosa*, 353.
 aletridis, *Aletris* sp., 377.
 apocryptum, *Acer saccharum*, 372.
 Acer spp., 371.
 betae, sugar beet, 148.
 caulivorum, clover, 313.
 red clover, 152.
 exitiosum, *Actinomeris alternifolia*, 353.
 frigidum, *Euonymus japonica*, 384.
 impatiens, *Impatiens biflora*, 358.
 perennans, apple, 203.
 piperatum, pepper, 91.
 rhododendri, *Rhododendron* spp., 391.

- rosae*, *Rosa* spp., 392.
saccharinum, *Acer saccharum*, 353.
sp., *Acer* spp., 371.
 avocado, 250.
Magnolia sp., 374.
Passiflora sp., 390.
 pomegranate, 253.
Rhododendron spp., 391.
Glomerella cingulata, apple, 190, 326, 328.
 grape, 233.
Hydrangea sp., 386.
Lathyrus odoratus, 387.
Paeonia spp., 390.
 pear, 210.
 quince, 211, 329.
Symphoricarpos spp., 393.
 cotton, 97.
gossypii, cotton, 96.
pomigena, apple, 326, 328.
 Glume blotching and spotting, rice, 307.
Glutinium macrosporum, apple, 203.
Gnomonia leptostyla, *Juglans nigra*, 358.
 walnut, 256.
ulmea, *Ulmus fulva*, 362.
Ulmus spp., 377.
veneta, *Platanus occidentalis*, 351, 375.
Quercus sp., 351, 361.
Quercus spp., 375.
Gnomoniella tubiformis, *Alnus rugosa*, 353.
Gonatobotryum maculicolum, *Hamamelis virginiana*, 357.
Graphiola phoenicis, date, 251.
 Greasy spot, citrus, 248.
Guignardia aesculi, *Aesculus glabra*, 353.
Aesculus hippocastanum, 372.
bidwellii, *Ampelopsis tricuspidata*, 377.
 grape, 230, 332.
Vitis bicolor, 363.
Vitis sp., 363.
buxi, *Buxus sempervirens*, 379.
 Gummosis, citrus, 248.
 sour cherry, 157.
 sweet cherry, 157.
 Gum spot, plum, 226.
 prune, 226.
Gymnoconia interstitialis, blackberry, 160, 243, 331.
 black raspberry, 159.
 dewberry, 244.
 raspberry, 238, 331.
Gymnosporangium betheli, hawthorn, 162.
 juniper, 170.
clavariaeforme, juniper, 170.
 serviceberry, 161.
cornutum, mountain ash, 167.
germinale, apple, 185.
Crataegus oxyacantha, 373.
Crataegus sp., 356.
 hawthorn, 162.
 quince, 211, 329.
globosum, apple, 185.
 pear, 210.
juniperinum, mountain ash, 167.
juniperi-virginianae, apple, 185.
 326, 328.
Malus ioensis, 374.
Malus ioensis plena, 374.
Pyrus coronaria, 361.
juvenescens, juniper, 170.
nelsoni, juniper, 170.
 mountain ash, 167.
 serviceberry, 161.
tubulatum, hawthorn, 162.
 juniper, 170.

H

- Hail injury, apple, 201.
 cotton, 97.
 potato, 34.
 Head cracking, cabbage, 65.
 Heat canker, flax, 154, 305.
Helminthosporium avenae, oats, 296, 334, 335.
californicum, barley, 292.
gramineum, barley, 132, 289, 332.
oryzae, rice, 306.
sativum, barley, 132, 290.
 wheat, 123, 276, 277, 278, 280.
 sp., cowpea, 316.
 wheat, 281.
 spp., wheat, 281.
stenospilum, sugar cane, 104.
teres, barley, 132.
 (see *Pyrenophora teres*), 291.
tritici-repentis, rye, 335.
turcicum, corn, 303, 333, 334.

- Holcus sorghum sudanensis*, 320.
sweet corn, 334.
wheat, 277.
Herpotrichia nigra, Douglas fir, 171.
juniper, 170.
limber pines, 169.
spruce, 170.
Heterodera radicum (see *Caenema radicum*), 12, 311, 314.
Schachtia, sugar beet, 107.
Heterosporium phragmites, oats, 130.
Hollow-heart, potato, 34, 145.
Hollow stem, potato, 47.
Hopperburn, bean, 57.
eggplant, 87.
potato, 31, 345.
soybean, 317.
Hormodendron cladosporioides, wheat, 381.
hordei, barley, 132.
Hyaloceras depazeoides, Rosa spp., 392.
Hylemia cilicrura, potato, 143.
Hypochnus sp., apple, 203.
Hypocrea richardsoni, poplar, 168.
Hypoderma deformans, western yellow pine, 170.
Hypodermella laricis, western larch, 170.
sulcigena, Pinus flexilis, 368.

I

- Illosporium malifoliorum*, apple, 189, 203, 326.
Malus coronaria, 374.
Pyrus coronaria, 361.
Internal black spot, cabbage, 65.
Internal brown spots, potato, 34.
Intumescences, pea, 5, 12, 141.
Isariopsis clavispora, grape, 233.
griseola, bean, 56, 341.

J

- Jonathan spot, apple, 205, 327.

K

- Kabatiella microsticta*, Liliaceae spp., 388.
nigricans, vetch, 155, 318.

- polyspora, *Acer dasycarpum* pyramidalis, 371.
Kernel spot, pecan, 256.
Kuehneola uredinis, blackberry, 243.
Rubus sp., 361.

L

- Lachnella flammea*, willow, 168.
Leaf-blotch, pea, 5, 13.
Leaf-curl, raspberry, 240.
Leaf girdle, barley, 132.
wheat, 128.
Leaf hopper injury, alfalfa, 312.
Leaf-roll, potato, 26, 144, 345.
tomato, 48.
Leaf-rust, oats, 335.
Leaf-scorch, lima bean, 58.
Leaf-spot, muskmelon, 76.
pepper, 91.
sour cherry, 157.
tobacco, 340.
Tradescantia, 166.
wheat, 281.
Lemoine's disease, Paeonia spp., 390.
Leptosphaeria coniothyrium, blackberry, 243.
raspberry, 241, 331.
Rosa sp., 352.
Rosa spp., 392.
heterospora, Iris spp., 386.
Leptothyrium castaneae, Castanea dentata, 355.
pomi, apple, 196, 326, 328.
Crataegus sp., 356.
plum, 225.
prune, 225.
Prunus americana, 360.
punctiforme, *Erigeron ramosus*, 357.
rosarum, Rosa sp., 352.
tumidulum, Solidago juncea, 362.
vulgare, Spirea sp., 352, 393.
Lightning injury, bean, 57.
cotton, 97.
potato, 34.
watermelon, 81.
Linospora psederae, Ampelopsis sp., 354.
Little peach, peach, 219, 330.
Lophiostoma sp., Nandina domestica, 374.

- Lophodermium abietis*, *Abies* sp., 367.
pinastri, limber pines, 169.
Pinus murrayana, 369.
Pinus parviflora, 369.
Pinus sylvestris, 370.
 western white pine, 169.

M

- Macrophoma candollei*, *Buxus sempervirens*, 379.
fici, fig, 252.
 sp., *Celtis occidentalis*, 373.
Macrophomina phaseoli, bean, 56.
Macrosporium avenae, oats, 130.
carotae, carrot, 87, 342.
cucumerinum, cantaloupe, 342.
 cucumber, 73, 343.
 muskmelon, 74.
 watermelon, 80.
inquinans, sunflower, 153.
iridicolum, iris, 164.
iridis, iris, 164.
porri, onion, 61.
sarcinaeforme, clover, 314.
 red clover, 338.
sarcinula parasiticum, onion, 61.
 sp., alfalfa, 312, 337.
ondive, 88.
Lantana sp., 387.
 tomato, 46.
 turnip, 69.
 tomato, tomato, 46.
Marasmius tritici, wheat, 281.
Marssonina apicaulis, willow, 168.
castagnei, poplar, 168.
Marssonina aquilegiae, *Aquilegia* sp., 378.
coronariae, *Pyrus coronaria*, 361.
panattoniana, lettuce, 84.
populi, *Populus alba*, 351, 375.
Populus canadensis, 351.
Populus deltoides, 375.
Populus spp., 375.
 sp., *Salix lasiandra*, 376.
thomasiana, *Euonymus atropurpureus*, 384.
Massariella curreyi, *Tilia* sp., 376.
 Measles, apple, 206, 327.
 pear, 210.
Melampsora albertensis, Douglas fir, 171.
 poplar, 168.
 willow, 168.
arctica, alpine fir, 171.
 great silver fir, 171.
 willow, 168.
bigelowii, willow, 168.
confluens, willow, 168.
humboldtiana, willow, 168.
lini, flax, 154, 305.
Linum lewisii, 154.
medusae, poplar, 168.
occidentalis, poplar, 168.
salicina, willow, 168.
salicis capraea, willow, 168.
salicis, willow, 168.
Melampsorella elatina, alpine fir, 171.
Melampsoridium betulae, birch, 166.
 river birch, 167.
Melampsoropsis cassandrae, *Picea pungens*, 368.
Picea spp., 367.
pyrolae, spruce, 170.
Melanconium bicolor, *Betula alba laciniata*, 372.
fuliginum, grape, 232.
sacchari, sugar cane, 104.
Microsphaera alni, alder, 166.
Betula lenta, 355.
Castanea dentata, 355.
 pecan, 255.
 vetch, 155.
diffusa, snowberry, 165.
grossulariae, black currant, 162.
Microstroma alba, *Quercus alba*, 361.
juglandis, pecan, 255.
 walnut, 256.
 Mild mosaic, potato, 25.
Monilia seaveri, chokecherry, 158.
Monilochaetes infuscans, sweet potato, 50.
Monochaeta sp., *Viburnum* sp., 353.
 Mosaic, *Aconitum*, 377.
 alfalfa, 150.
 alsike clover, 315.
 apple, 206.
Aquilegia sp., 378.
 bean, 54, 137, 341.
 blackberry, 244.
 black raspberry, 159.
 corn, 303.
 cowpea, 316.
 cucumber, 71, 343.

dewberry, 160, 244.
 gladiolus, 163.
 Gladiolus sp., 385.
 Iris sp., 387.
 Lathyrus odoratus, 387.
 lettuce, 84, 146.
 Liliun spp., 388.
 loganberry, 160, 244.
 muskmelon, 75.
 Narcissus spp., 389.
 onion, 343.
 pea, 5, 12, 13, 141.
 pepper, 91.
 petunia, 164.
 Phlox spp., 391.
 Phytolacca decandra, 359.
 Phytolacca sp., 394.
 potato, 144, 345.
 purple raspberry, 159.
 raspberry, 239, 331.
 red clover, 152, 315, 338.
 red raspberry, 159.
 soybean, 317.
 spinach, 92.
 squash, 78.
 sugar beet, 108.
 sugar cane, 103.
 sweet clover, 151, 318.
 sweet potato, 50.
 tobacco, 100, 340.
 tomato, 43, 145, 347.
 Tulipa sp., 393.
 white clover, 315.
 wild cucumber, 147.
 Mosaic-like disease, eggplant, 87.
 watermelon, 81.
 Mottle and chlorotic stripe, wheat, 128.
 Mottled leaves, currant, 162.
 Mouse ear, pecan, 256.
 Mycosphaerella blight, pea, 4, 12, 13.
 Mycosphaerella citrullina, cucumber, 73.
 watermelon, 80.
 convexula, pecan, 255.
 fragariae, strawberry, 161, 234, 332.
 grossulariae, currant, 245.
 gooseberry, 245.
 impatientis, Impatiens sp., 358.
 lethalis, white sweet clover, 338.
 lythracearum, pomegranate, 254.
 pinodes, pea, 8, 9, 140, 344.

vetch, 318.
 rubi, blackberry, 244.
 dewberry, 160, 244.
 loganberry, 244.
 raspberry, 240, 331.
 Rubus hispidus, 361.
 rubina, raspberry, 242.
 sentina, pear, 209, 328.
 tabicifica, sugar beet, 148.
 tulasnei, wheat, 281, 336.
 ulmi, Ulmus americana, 362.
 Myxosporium corticolum, apple, 203.
 rosae, Rosa spp., 392.
 sp., Cinnamomum camphora, 373.

N

Nectria cinnabarina, Acer palmatum, 371.
 apple, 203.
 currant, 162.
 fici, fig, 252.
 galligena, apple, 198.
 sp., walnut, 256.
 Nectriella rousseliana, Buxus sempervirens, 379.
 Nematodes, tomato, 145.
 Nematospora sp., citrus, 248.
 cotton, 97.
 pomegranate, 254.
 Neofabraea malicorticis, apple, 156, 204.
 Nigredo fabae, vetch, 155.
 Nummularia discreta, apple, 204, 326.
 Nut blight, filbert, 257.

O

Oedema, cabbage, 65.
 tomato, 48.
 Oil injury, apple, 202.
 Olpidium pendulum, western yellow pine, 170.
 Ophiobolus graminis, wheat, 276, 278, 279.
 Ophiodothis haydeni, Aster multifloris, 355.
 Aster sp., 355.
 Ovularia aristolochiae, Aristolochia macrophylla, 354.
 Ozonium omnivorum, (see Phymatotrichum omnivorum), 312.

- Patrioza cockerelli*, potato, 28.
Penicillium, cotton, 97.
 gladioli, *Gladiolus* sp., 385.
 sp., *Iris* spp., 386.
 sunflower, 153.
 Tulipa sp., 393.
 spp., citrus, 248.
Peridermium coloradense, spruce, 170.
 montanum, lodgepole pine, 169.
 ornamentale, alpine fir, 171.
 pini, western yellow pine, 170.
Peronospora effusa, carrot, 87.
 Chenopodium album, 355.
 spinach, 92.
 manshurica, soybean, 317, 340.
 parasitica, cabbage, 65.
 cauliflower, 66.
 turnip, 69, 347.
 polygona, *Polygonum* sp., 360.
 schachtii, sugar beet, 108.
 schleideni, onion, 58.
 trifoliorum, alfalfa, 149, 312.
 vidiae, pea, 8, 140.
Pestalotia sp., avocado, 250.
 date, 251.
Pestalozzia funerea, *Platanus occiden-*
 entalis, 360.
 guelpini, *Gaylussacia baccata*, 357.
 heucherae, *Heuchera americana*, 357.
 inquinans, *Camellia japonica*, 380.
 macrostricha, *Rhododendron* spp.,
 391.
 monochaetoides parasitica, *Physom-*
 carpus opulifolius, 359.
 sp., *Acer platanoides*, 371.
 Andromeda sp., 378.
 Cotoneaster sp., 382.
 Cryptogramma acrostichoides, 382.
 Cydonia spp., 382.
 uvicola, grape, 233.
Pezizella lythri, *Ligustrum* spp., 387.
 Rhus typhina, 361.
 strawberry, 236.
Phacidium infestans, *Picea* spp., 367.
Phleospora aceris, *Acer saccharum*, 353.
 asiminae, *Asimina triloba*, 354.
 hyalospora, alfalfa, 312, 337.
 maculans, *Morus rubra*, 350.
 multimaculans, (see *Septoria plata-*
 nifolia), 351.
 robiniae, *Robinia pseudacacia*, 352,
 376.
Phlyctaena linicola, flax, 305.
Phoma betae, sugar beet, 107, 148.
 destructiva, pepper, 91.
 tomato, 46.
 lingam, cabbage, 62, 342.
 pomi, apple, 197.
 quince, 211.
 sp., bean, 56.
 Callistephus chinensis, 380.
 onion, 59.
 Rosa sp., 352.
 zeicola, sweet corn, 334.
Phomopsis juniperovora, *Juniper pro-*
 cumbens, 367.
 Retinospora squarrosa, 370.
 Thuja sp., 370.
 kalmiae, *Kalmia latifolia*, 387.
 occulta, *Picea engelmanni*, 368.
 Picea pungens, 368.
 Picea pungens kosteri, 368.
 Picea spp., 367.
 sp., *Acer palmatum*, 371.
 Buxus sempervirens, 379.
 Cornus sp., 373.
 Rosa sp., 352.
 stewartii, *Cosmos* sp., 349, 381.
 stictica, *Buxus sempervirens*, 379.
 vexans, eggplant, 87, 343.
 Phony disease, peach, 219.
Phragmidium disciflorum, rose, 165.
 imitans, raspberry, 242.
 montivagum, rose, 165.
 mucronatum, rose, 165.
 potentillae-canadensis, *Poten-*
 tilla canadensis, 360.
 rosae-acicularis, rose, 165.
 rosae-arkansanae, rose, 165.
 rosae-setigerae, rose, 165.
 subcorticinum, rose, 165.
Phyllachora cyperi, *Cyperus strigosus*,
 356.
 graminis, *Agropyron repens*, 320,
 353.
 Elymus canadensis, 357.
 Muhlenbergia mexicana, 359.
 Panicum sp., 320.
 puncta, *Panicum huachucae*, 359.
 Panicum latifolium, 359.
 Panicum microcarpon, 359.
 trifolii, alsike clover, 314.
 red clover, 314.
 white clover, 153, 314, 339.
Phyllactinia corylea, alder, 166.
 birch, 166.

- Hawthorn, 162.
Phyllosticta antirrhini, *Antirrhinum*
 majus, 378.
auerswaldii, *Buxus sempervirens*,
 379.
bataticola, sweet potato, 51.
betae, sugar beet, 148.
betulae, *Betula lenta*, 355.
brunnea, poplar, 168.
capsici, pepper, 344.
caryae, pecan, 255.
chrysanthemi, *Chrysanthemum* sp., 381.
communisii, *Paeonia* sp., 350.
 Paeonia spp., 390.
concentrica, *Hedera helix*, 349, 385.
cornuti, *Asclepias syriaca*, 354.
corylea, red osier, 164.
destruens, chokecherry, 158.
euonymi, *Euonymus japonica*, 384.
 Euonymus sp., 384.
fragaricola, strawberry, 237.
galactis, *Galax* sp., 384.
hydrangeae, *Hydrangea* sp., 386.
kalmicola, *Kalmia latifolia*, 387.
liriodendrica, *Liriodendron tulip-*
 ifera, 358.
magnoliae, *Magnolia acuminata*, 359.
minima, *Acer saccharum*, 372.
 Acer spp., 371.
minutissima, maple, 167.
nyssae, *Nyssa sylvatica*, 359.
ovalifolii, *Ligustrum* spp., 388.
phaseolina, bean, 56, 341.
 mung bean, 58.
platani, *Platanus occidentalis*, 351.
polygonorum, buokwehat, 340.
prunicola, apple, 326.
 pear, 326, 328.
 Prunus americana, 326, 360.
 Prunus serotina, 326, 360.
 Pyrus coronaria, 326, 361.
pyrorum, pear, 210.
rubi-odorati, *Rubus odoratus*, 362.
rubra, *Crataegus oxyacantha*, 349.
solitaria, apple, 183, 327, 328.
 Crataegus sp., 356.
 sp., *Acer* sp., 353.
 Magnolia sp., 374.
 pepper, 344.
 plum, 225.
 prune, 225.
straminella, rhubarb, 91.
virginianae, chokecherry, 158.
Phymatotrichum omnivorum, alfalfa, 312.
 apple, 204.
 apricot, 230.
 beet, 86.
 blackberry, 244.
Buddleia stenostachys, 379.
 carrot, 87.
Chamaecrista nictitans, 394.
 citrus, 248.
 clover, 314.
Cosmos sp., 381.
 cotton, 93.
 cowpea, 316.
Crotalaria spp., 394.
 dewberry, 244.
 fig, 252.
Fraxinus lanceolata, 373.
Gardenia florida, 384.
Gleditsia triacanthos, 374.
 grape, 233.
Indigofera sp., 386.
 kudzu, 319.
Lantana sp., 387.
Lavatera sp., 394.
 lima bean, 57.
Mirabilis jalapa, 388.
 mulberry, 247.
 mung bean, 58.
Nerium sp., 374.
 okra, 89.
 peach, 222.
 peanut, 90.
 pecan, 256.
Phytolacca sp., 394.
 pigeon pea, 319.
Platanus occidentalis, 375.
 plum, 225.
Poinsettia pulcherrima, 391.
 potato, 32.
 prune, 225.
Quercus palustris, 376.
 raspberry, 242.
 rhubarb, 91.
Salix sp., 376.
Sesbania sp., 394.
Shepherdia argentea, 394.
Solanum carolinense, 394.
 soybean, 317.
 squash, 78.
 sunflower, 323.
 sweet clover, 318.
 sweet potato, 51.
Syringa vulgaris, 393.

- Tamarix sp., 393.
 Thuja sp., 370.
 Tilia sp., 377.
 tomato, 45.
 Tragia sp., 394.
 velvet bean, 318.
 vetch, 318.
 walnut, 257.
 Physalospora ilicis, Ilex spp., 386.
 malorum, apple, 189, 327, 328.
 quince, 212, 329.
 Rosa sp., 352.
 rhodina, Quercus spp., 376.
 sp., Populus lasiocarpa, 375.
 Physarum cinereum, grasses, 320.
 Poa sp., 320.
 Physiological leaf-spot, wheat, 127.
 Physoderma zeae-maydis, corn, 302.
 Phytomonas atrofaciens, (see Bacterium atrofaciens), 281.
 wheat, 125.
 cichori, french endive, 146.
 coronafaciens, oats, 129.
 flaccumfaciens, bean, 136.
 intybi, french endive, 146.
 medicaginis, alfalfa, 150.
 medicaginis phaseolicola, bean, 135.
 phaseoli, bean, 136.
 dwarf lima bean, 138.
 pisi, pea, 139.
 pruni, chokecherry, 158.
 peach, 159.
 plum, 158.
 tumefaciens, apple, 156.
 blackberry, 160.
 Populus angustifolia, 168.
 Phythophthora cactorum, apple, 204.
 ginseng, 88.
 Lilium spp., 388.
 Rhodendron spp., 391.
 strawberry, 235.
 capsici, pepper, 91.
 infestans, potato, 17, 344, 345.
 tomato, 45, 347.
 nicotianae, tobacco, 102.
 paeoniae, Paeonia spp., 390.
 parasitica, tomato, 46.
 phaseoli, lima bean, 57, 341.
 spp., coconut, 258.
 rhubarb, 91.
 terrestris, citrus, 248.
 tomato, 46.
 Piggotia fraxini, Fraxinus americana, 357.
 Piricularia grisea, Chaetochloa italica, 320.
 Chaetochloa viridis, 320.
 Setaria viridis, 320.
 Syntherisma sanguinalis, 320.
 oryzae, rice, 306.
 Pitting, potato, 34.
 Pitya cupressi, Juniperus procumbens, 367.
 Plasmodiophora brassicae, Brassica napus, 394.
 broccoli, 66.
 cabbage, 64, 342.
 cauliflower, 66.
 Chinese cabbage, 67.
 kohlrabi, 68.
 Plasmopara halstedii, Bidens vulgata, 355.
 sunflower, 153, 323.
 humuli, Humulus lupulus, 394.
 viticola, grape, 231, 332.
 Psedera sp., 360.
 Vitis aestivalis, 363.
 Plectodiscella veneta, blackberry, 243, 331.
 dewberry, 244.
 loganberry, 244.
 raspberry, 238, 331.
 Plenodomus destruens, sweet potato, 51.
 Pleospora lactucicola, Lactuca sp., 358.
 sp., Sedum telephium, 392.
 Pleurotus ostreatus, Prunus serotina, 360.
 Plowrightia morbosa, cherry, 229, 330.
 chokecherry, 158.
 plum, 224, 330.
 prune, 224.
 Prunus pennsylvanica, 360.
 serviceberry, 161.
 symphoricarpi, snowberry, 165.
 Podosphaera leucotricha, apple, 156, 200.
 pear, 210.
 oxyacanthae, apple, 156, 327.
 cherry, 229.
 chokecherry, 158.
 peach, 159, 330.
 plum, 158, 225.
 prune, 225.
 quince, 212, 329.
 sour cherry, 157.

- Pokkah bong, sugar cane, 104.
 Polyporus anceps, Pinus ponderosa, 370.
 balsameus, Abies balsamea, 367.
 circinatus, Pseudotsuga douglasii, 370.
 erubescens, Abies grandis, 367.
 leucospongia, Pseudotsuga douglasii, 370.
 schweinitzii, Douglas fir, 171.
 western yellow pine, 170.
 sulphureus, Quercus alba, 361.
 Poor germination, potato, 34.
 Poria weirii, giant arborvitae, 171.
 Powdery mildew, pea, 4.
 Premature dropping, fig, 252.
 peach, 222.
 Protocoronospora nigricans, (see Katiella nigricans), 318.
 Pseudomonas alboprecipitans, millet, 134.
 savastanoi nerii, Nerium oleander, 389.
 Pseudomosaic, bean, 138.
 Pseudoperonospora celtidis, Celtis occidentalis, 355.
 cubensis, cantaloupe, 342.
 cucumber, 72, 343.
 muskmelon, 75.
 squash, 78, 346.
 watermelon, 80.
 humuli, hops, 88.
 Pseudopeziza medicaginis, alfalfa, 149, 307.
 white sweet clover, 339.
 ribis, currant, 162, 245.
 gooseberry, 245.
 Ribes odoratum, 394.
 Ribes saxosum, 162.
 trifolii, alfalfa, 337.
 red clover, 152, 314, 338.
 Trifolium hybridum, 362.
 Psorosis, citrus, 249.
 Psyllid yellows, potato, 28.
 Puccinia acuminata, Cornus canadensis, 164.
 agropyri, Agropyron spp., 135.
 anemones-virginianae, Anemone virginiana, 354.
 anomala, barley, 286.
 antirrhini, snapdragon, 165.
 asparagi, asparagus, 86.
 asteris, Aster sp., 355.
 asterum, Erigeron ramosus, 357.
 bardanae, Arctium minus, 354.
 circaeae, Circaea lutetiana, 356.
 clematidis, Bromus purgans, 355.
 larkspur, 164.
 convolvuli, Convolvulus sepium, 356.
 coronata, buffaloberry, 163.
 Holcus lanatus, 358.
 oats, 129, 295, 335.
 crandallii, snowberry, 165.
 cyperi, Cyperus strigosus, 356.
 dispersa, rye, 133, 282, 335.
 elymi, columbine, 163.
 emaculata, Panicum gattengeri, 359.
 epiphylla, Poa pratensis, 320.
 fraxinata, ash, 166.
 globosipes, Lycium halimifolium, 358.
 glumarum, Agrostis alba, 320.
 barley, 132.
 Hordeum jubatum, 123, 132.
 wheat, 122, 271.
 graminis, Agropyron repens, 320.
 Agropyron spp., 135.
 Agrostis alba, 320.
 Avena fatua, 129.
 barley, 120, 131, 286.
 Fusarium parasiticum, 339.
 Hordeum jubatum, 320.
 oats, 120, 129, 294, 335.
 Phleum pratense, 320.
 rye, 120, 282, 335.
 timothy, 134.
 timothy grass, 339.
 wheat, 119, 128, 266, 336, 337.
 grossulariae, gooseberry, 245.
 helianthi, Heliopsis helianthoides, 357.
 helianthi-mollis, Helianthus giganteus, 349, 385.
 sunflower, 153, 323.
 hibiscata, cotton, 97.
 Muhlenbergia mexicana, 359.
 Muhlenbergia schreberi, 359.
 hieracii, endive, 88.
 ligustri, Ligustrum sp., 164.
 malvacearum, Althaea rosea, 348.
 hollyhock, 164.
 menthae, Mentha spicata, 359.
 Monarda didyma, 350.
 Pycnanthemum flexuosum, 360.
 Pycnanthemum pycnanthemoides, 360.
 montanensis, Agropyron spp., 135.

- obliterata, *Agropyron* spp., 135.
 columbine, 163.
 pattersoniana, *Agropyron* spp., 135.
 polygoni-amphibii, *Tiniaria scandens*, 362.
 purpurea, *Holcus halepensis*, 320.
 rubigo-vera, *Agropyron* spp., 135.
 sambuci, *Carex lurida*, 355.
 simplex, barley, 132.
 sorghi, corn, 302, 333, 334.
 symphoricarpi, snowberry, 165.
 triticina, wheat, 120, 269, 336, 337.
 violae, violet, 166.
 windsorise, *Tridens flavus*, 362.
 xanthii, *Xanthium canadense*, 363.
Pucciniastrum agrimoniae, *Agrimonia gryposepala*, 353.
 hydrangeae, *Hydrangea arborescens*, 358.
 myrtilli, huckleberry, 163.
Vaccinium pennsylvanicum, 363.
 pustulatum, alpine fir, 171.
 great silver fir, 171.
Pucciniola nerviphila, white clover, 153.
 (see *Uromyces nerviphila*), 315.
 Puffing, tomato, 48.
 Purple sheat spot, field corn, 133.
Pyrenopeziza medicaginis, alfalfa, 149, 308, 337.
Pyrenophora teres, barley, 291.
Pythiacystis citrophthora, citrus, 248.
Pythium arrhenomanes, corn, 299.
 debaryanum, potato, 143.
 sp., *Alyssum maritimum*, 377.
 cucumber, 73.
 lettuce, 84.
Pelargonium sp., 390.
 sugar cane, 104.
 sweet potato, 51.
 watermelon, 81.
 spp., pea, 141.
 rudbeckiae, golden glow, 164.
 tulasnei, *Fragaria* sp., 357.
Razoumofskaya douglasii microcarpa, spruce, 170.
 laricis, alpine fir, 171.
 limber pines, 169.
 spruce, 170.
 western larch, 170.
 Red leaf-rust, wheat, 128.
Rhabdocline pseudotsugae, Douglas fir, 171.
Rhizina inflata, great silver fir, 171.
 lodgepole pine, 169.
 western white pine, 169.
 western yellow pine, 170.
Rhizobium leguminosarum, alfalfa, 151.
 bean, 137.
 pea, 141.
 red clover, 152.
Rhizoctonia, pea, 3, 11, 141.
 potato, 345.
 solani, (see *Corticium vagum*), 21.
 eggplant, 87.
 endive, 88.
 lima bean, 58.
 strawberry, 237.
 sp., *Agrostis* sp., 320.
 alfalfa, 312.
Alyssum maritimum, 377.
Antirrhinum majus, 378.
 bean, 56.
 carrot, 87.
 cauliflower, 66.
Cheiranthus cheiri, 381.
 cowpea, 316.
Dianthus chinensis, 383.
 kudzu, 319.
Mentzelia aurea, 388.
 okra, 89.
 pepper, 91.
 rye, 284.
 spinach, 92.
 strawberry, 235.
 sugar beet, 108.
 watermelon, 81.
 spp., cabbage, 65.
 ginseng, 88.
Rhizopus nigricans, strawberry, 235.
 sweet potato, 51.
Rhynchosporium secalis, barley, 291.
Rhytisma acerinum, *Acer* spp., 371.
 maple, 167.

R

punctatum, *Acer pennsylvanicum*,
353, 371.

salicina, *Salix* sp., 362.

salicinum, willow, 168.

solidaginis, *Solidago* sp., 362.

vaccinii, huckleberry, 163.

Vaccinium stramineum, 363.

vitis, grape, 233.

Ring spot, apple, 206.

cantaloupe, 342.

muskmelon, 76.

Paeonia spp., 390.

pumpkin, 77, 345.

red clover, 152.

tobacco, 102, 340.

Roestelia lacerata, hawthorn, 162.

tutulata, hawthorn, 162.

Root-knot, pea, 5.

Root-rot, alfalfa, 310.

apple, 206.

corn, 299.

pea, 3, 4, 13.

strawberry, 235.

Rosette, peach, 219.

pecan, 256.

walnut, 257.

Rugose mosaic, potato, 26.

Rust, cotton, 97.

lettuce, 84.

S

Sand-drown, tobacco, 102.

Sapromyces reinschii, Douglas fir,
171.

Scald, apple, 201.

Scleroderma bacillifera, *Abies*
grandis, 367.

Sclerospora graminicola, *Chaetochloa*
italica, 320.

Chaetochloa sp., 320.

Chaetochloa viridis, 320.

millet, 134.

Setaria viridis, 134.

Sclerotinia cinerea, pear, 210.

fructicola, apple, 204, 327.

cherry, 226, 331.

peach, 212, 330.

plum, 223, 330.

prune, 223.

Prunus glandulosa, 351.

sweet cherry, 157.

libertiana, cabbage, 146.

carrot, 147.

french endive, 146.

hemp., 155.

lettuce, 146.

sunflower, 153.

sweet clover, 151.

Sclerotium, (see *S. libertiana*),
153.

bean, 56, 341.

cabbage, 65.

carrot, 87.

celery, 83.

Cirsium arvense, 394.

citrus, 248.

cucumber, 73.

fig, 252.

parsnip, 90.

romaine, 92.

squash, 78.

sunflower, 323.

tomato, 45.

turnip, 69.

sp., mulberry, 247.

spp., lettuce, 84.

trifoliorum, clover, 314.

Sclerotium bataticola, sweet potato, 51.

bifrons, *Populus tremuloides*, 375.

cepivorum, onion, 61.

delphinii, *Aconitum*, 377.

Delphinium sp., 382.

Iris spp., 387.

muskmelon, 76.

Narcissus spp., 389.

gladioli, *Gladiolus* sp., 385.

oryzae, rice, 306.

rhizodes, hay, 320.

(see *Typhula graminum*), 127.

rolfsii, bean, 56.

cabbage, 65.

Calendula officinalis, 379.

Colocasia sp., 381.

Delphinium sp., 383.

Dianthus caryophyllus, 383.

eggplant, 87.

Forsythia sp., 384.

muskmelon, 76.

peanut, 90.

pepper, 91.

potato, 32.

rhubarb, 91.

soybean, 317.

sugar beet, 108.

sweet potato, 51.

- tomato, 45.
Tulipa sp., 393.
 turnip, 69.
 watermelon, 81.
 sp., muskmelon, 76.
 watermelon, 81.
Scolecotrichum graminis, bluegrass, 339.
Dactylis glomerata, 321, 356.
Poa pratensis, 321.
iris, *Iris* spp., 386.
Septobasidium pseudopedicellatum, apple, 204.
 pecan, 256.
Septogloeum fraxini, *Fraxinus oregona*, 374.
 maculans, willow, 168.
Septoria acerella, boxelder, 167.
 althaeae, *Althaea rosea*, 377.
 apii, celery, 81, 147, 342.
 atropurpurea, *Aster multiflorus*, 355.
 bromi, *Bromus inermis*, 321.
Bromus japonicus, 355.
 cacaliae, *Cacalia atriplicifolia*, 355.
 chrysanthemella, *Chrysanthemum* sp., 349, 381.
 chrysanthemi, *Chrysanthemum leucanthemum*, 356.
 cirsii, *Cirsium* sp., 356.
 compacta, alsike clover, 152.
 convolvuli, *Convolvulus sepium*, 356.
Convolvulus sp., 356.
 cornicola, *Cornus florida*, 356.
 red osier, 164.
 erectititis, *Erechtites hieracifolia*, 357.
 gladioli, *Gladiolus* sp., 385.
 glycines, soybean, 317.
 graminum, *Panicum clandestinum*, 359.
 helianthi, *Helianthus giganteus*, 349, 385.
 sunflower, 153, 323.
 lactucae, *Lactuca scariola*, 358.
 lettuce, 84, 343.
 lycopersici, tomato, 36, 347.
 meliloti, sweet clover, 151.
 yellow sweet clover, 339.
 microsperma, *Betula lenta*, 355.
 mimuli, *Mimulus ringens*, 359.
 musiva, poplar, 168.
 nodorum, wheat, 126, 274, 336, 337.
 ochroleuca, *Castanea dentata*, 348.
 oenotherae, *Oenothera* sp., 359.
 philadelphia, *Philadelphus* sp., 390.
 pisi, pea, 9, 140.
 platanifolia, *Platanus occidentalis*, 351, 360, 375.
 podophyllina, *Podophyllum peltatum*, 360.
 polygonorum, *Polygonum pennsylvanicum*, 360.
 prunellae, *Prunella vulgaris*, 360.
 saccharina, occidentalis, maple, 167.
 salicifoliae, spireae, 166.
 salicis, willow, 168.
 scrophulariae, *Scrophularia marilandica*, 362.
 secalis, rye, 284.
 sp., *Iris* spp., 387.
 symphoricarpi, snowberry, 165.
 tritici, wheat, 126, 275.
 Shedding and cracking of nuts, pecan, 256.
 Slime flux, *Aesculus hippocastanum*, 372.
 Slimy soft rot, lettuce, 84.
 Sorosporium reilianum, corn, 303.
 sorghum, 306.
 Sparassia radicata, Douglas fir, 171.
 spruce, 170.
 western larch, 170.
 western white pine, 169.
 Sphaceloma ampelinum, grape, 232.
 fawcetti, citrus, 248.
 symphoricarpi, *Symphoricarpos* spp., 393.
 Sphacelotheca sorghi, *Holcus halepensis*, 321.
 sorghum, 134, 306.
 Sphaerella aquilegiae, columbine, 163.
 Sphaeropsis cruenta, *Smilax hispida*, 362.
 ellisii, *Pinus nigra*, 369.
Pinus sylvestris, 370.
 salviae, *Salvia* spp., 392.
 sp., *Ilex* spp., 386.
Pinus montana mughus, 368.
Pinus nigra, 369.
 Sphaerotheca castagnei, *Bidens vulgata*, 355.
 humuli, buffaloberry, 163.
 raspberry, 242.
 strawberry, 161, 235.
 mors-uvae, currant, 162, 246.

- gooseberry, 162, 246.
 pannosa, peach, 222.
 Rosa spp., 392.
 rose, 165.
 Spindle tuber, potato, 27, 144.
 Splitting, cherry, 229.
 Spondylocladium atrovirens, potato, 32.
 Sporodesmium scorzonerae, salsify, 92, 346.
 Scorzonera hispanica, 346.
 Sporotrichum poae, Dianthus caryophyllus, 383.
 sp., Lilium spp., 388.
 Spotting, rice, 307.
 Spray injury, apple, 202.
 peach, 221.
 plum, 226.
 prune, 226.
 Sprout tubers, potato, 35.
 Stagonospora carpathica, white clover, 314, 339.
 white sweet clover, 318.
 curtisii, Narcissus spp., 389.
 Stalk rots, corn, 299.
 Stem canker, pea, 5.
 Pelargonium sp., 350.
 Stemonites splendens, potato, 32.
 Stemphyllium sp., tomato, 45.
 Stem-rust, oats, 335.
 Storm injury, tobacco, 102.
 Straighthead, rice, 307.
 Streak, alfalfa, 312.
 pea, 5, 12, 13.
 raspberry, 240.
 tomato, 42.
 Stripe, wheat, 281.
 Strumella sp., Tilia sp., 377.
 Stunt, Dahlia sp., 382.
 Sulphur injury, apple, 202.
 Sun scald, apple, 201.
 peach, 222.
 pepper, 91.
 Synchytrium decipiens, Amphicarpa monoica, 354.
- T
- Tall multiple bud, sugar cane, 105.
 Target canker, apple 206, 328.
 Taphrina coerulescens, Quercus spp., 376.
 filicina, Polystichum acrostichoides, 391.
- Thielavia basicola, pea, 8.
 tobacco, 101, 340.
 Tilletia horrida, rice, 306.
 laevis, wheat, 115, 128, 261, 336.
 337.
 tritici, wheat, 116, 261.
 Tipburn, alfalfa, 150.
 cabbage, 65.
 flax, 305.
 lettuce, 84.
 potato, 30, 145, 345.
 Trametes pini, Douglas fir, 171.
 lodgepole pine, 169.
 spruce, 170.
 western yellow pine, 170.
 Translucent bacterial stripe, sorghum, 133.
 Translucent leaf-spot, corn, 303.
 Translucent spot, corn, 333.
 Tranzschelia punctata, peach, 222.
 plum, 225.
 prune, 225.
 Tubercularia sp., Buxus sempervirens, 379.
 Magnolia sp., 374.
 Rosa spp., 392.
 Tylenchus dipsaci, alfalfa, 308.
 Fragaria chiloensis, 237.
 Narcissus spp., 389.
 oats, 297.
 Phlox spp., 391.
 Primula obconica, 391.
 strawberry, 237.
 sp., Deutzia longifolia veitchii, 383.
 tritici, wheat, 280, 336.
 Typhula graminum, wheat, 127, 281.
- U
- Uncinula australiana, Lagerstroemia indica, 387.
 flexuosa, Aesculus hippocastanum, 348, 372.
 necator, grape, 231, 332.
 salicis, poplar, 168.
 willow, 168.
 Uredinopsis pteridis, great silver fir, 171.
 Uredo holwayi, hemlock, 171.
 Urocystis cepulae, onion, 58.
 occulta, rye, 284, 335.
 tritici, wheat, 266.

Uromyces albus, vetch, 155.
appendiculatus, bean, 55, 136, 341.
asclepiadis, *Asclepias syriaca*, 354.
betae, sugar beet, 108.
caryophyllinus, carnation, 163.
Dianthus caryophyllus, 383.
fallens, red clover, 152, 315, 338.
hedysari-obscuri, vetch, 155.
hedysari-paniculatae, *Desmodium canescens*, 356.
holwayi, *Lilium* spp., 388.
hybridi, *Trifolium hybridum*, 362.
hyperici-frondosi, *Hypericum punctatum*, 358.
junci-effusi, *Juncus effusus*, 358.
lespedezae-procumbentis, *Lespedeza repens*, 358.
Lespedeza virginica, 358.
nerviphila, white clover, 315.
perigynius, goldenglow, 164.
polygoni, *Polygonum aviculare*, 360.
proeminens, *Euphorbia heterophylla*, 357.
Euphorbia preslii, 357.
rose, 165.
rudbeckiae, goldenglow, 164.
toxicodendri, *Rhus toxicodendron*, 361.
trifolii, alsike clover, 152, 315.
 white clover, 153, 315, 339.
vignae, cowpea, 316.
Urophlyctis alfalfae, alfalfa, 151, 312.
Ustilaginoidea virens, rice, 307.
Ustilago anomala, *Tiniaria scandens*, 362.
avenae, oats, 129, 292, 335.
bromivora, *Bromus tectorum*, 321.
hordei, barley, 130, 131, 284, 332.
hypodytes, *Agropyron* spp., 135.
levis, oats, 129, 292, 335.
neglecta, *Chaetochloa lutescens*, 321.
nuda, barley, 131, 285, 332.
oxalidis, *Oxalis stricta*, 389.
rabenhorstiana, *Syntherisma sanguinalis*, 321.
residua, *Danthonia spicata*, 356.
striaeformis, *Dactylis glomerata*, 321.
Phleum pratense, 321, 359.
Poa compressa, 360.
timothy, 135.

tritici, wheat, 119, 128, 264, 337.
zeae, corn, 133, 297, 333, 334.

V

Valsa leucostoma, apple, 156.
 mountain ash, 167.
Sorbus aucuparia, 352, 376.
nivea, poplar, 168.
salicina, willow, 168.
 spp., apple, 156.
Venturia inaequalis, apple, 155, 180, 327, 328.
Malus coronaria, 374.
Pyrus coronaria, 327, 361.
pyrina, pear, 157, 209, 328, 329.
Vermicularia, *circinans*, onion, 147.
 dematium, *Heuchera americana*, 357.
 herbarum, *Fraxinus americana*, 357.
Verticillium albo-atrum, *Acer platanoides*, 371.
Ailanthus glandulosa, 372.
 cotton, 98.
 eggplant, 87.
Heliotropium peruvianum, 385.
 okra, 89.
 potato, 32.
 raspberry, 242.
Solanum carolinense, 394.
 tomato, 45, 46.
foexii, *Narcissus* spp., 389.
 sp., *Acer palmatum rubrum*, 371.
 Acer saccharum, 372.
 Antirrhinum majus, 378.
 Paeonia spp., 390.
Viroses, potato, 144.
Virus diseases, potato, 23.
Volutella dianthi, *Dianthus barbatus*, 383.
 fructi, apple, 204, 327.
 occidentalis minor, willow, 168.

W

Walnut injury, potato, 35.
 Water core, apple, 156, 206.
 Weather injury, apple, 201.
 Western yellow blight, (see curly top), 38.
 White blast, onion, 61.
 White spot, alfalfa, 150, 312.
 Wilt, cotton, 98.
 pea, 13, 14.

Rhus sp., 361.
 snapdragon, 165.
 squash, 78.

Winter injury, alfalfa, 310, 337.
 apple, 156, 201.
 peach, 220.
 strawberry, 235.

Winter killing, cherry, 228.

Witches' broom, alfalfa, 309.
 potato, 30, 144.
 tobacco, 146.
 tomato, 145.

X

Xanthosis, strawberry, 237.
 Xylaria mali, apple, 199.
 pear, 210.
 polymorpha, apple, 199.
 spp., apple, 327.

Y

Yellow dwarf, onion, 60.

potato, 30.
 Yellowing, strawberry, 160.
 tomato, 48.
 Yellow leaf, sour cherry, 157.
 Yellows, Calendula officinalis,
 379.
 Callistephus chinensis, 348.
 380.
 carrot, 87.
 China aster, 163.
 Cosmos sp., 381.
 lettuce, 84.
 peach, 217, 330.
 plum, 158.
 Rosa spp., 352.
 spinach, 92.
 strawberry, 237.
 Yellow top, alfalfa, 312.

Z

Zygodesmus obtusus, poplar,
 168.

ERRATA AND EXPLANATION

Page

- Done* 38 Read "Eutettix tenella" instead of "E. tenellus".
Done 45 Read "Caconema raditicola" instead of "Caconeman".
Done 57 Read "Diaporthe phaseolorum" instead of "D. phaseolarum".
Done 78 Read "Bacillus tracheiphilus" instead of "B. tracheiphillus".
Done 88 Read "Pseudoperonospora humuli" instead of "P. humili".
Done 91 Read "Gloeosporium piperatum" instead of "G. piperitum".
Done 146 Read "Bacterium spp." instead of "Bacterial spp."
Done 210 Read "Xylaria mali" instead of "Xylari".
Done 236 Read "Pezizella" instead of "Pezella".
Done 244 Read "Gymnoconia interstitialis" instead of "G. interstitialis".
 266 Read "Puccinia graminis" instead of "Puccini".
Done 283 Read "Gibberella saubinetii" instead of "G. saubinetti".
Done 315 Read "Uromyces nerviphila" instead of "U. nerviphilia".
Done 320 Read "Epichloe typhina" instead of "Epichloa".
Done Read "Holcus" instead of "Halcus", also page 321.
Done 321 Read "Sphacelotheca sorghi" instead of "Sphaceloteca".
Done 349 Read "Alternaria fasciculata" instead of "A. fasiculata".
Done 350 Read "Cercospora omphakodes" instead of "C. omphacodes", also page 391.
Done 360 Read "Septoria prunellae" instead of "S. brunellae".
Done 361 Read "Rhus typhina" instead of "Rhus typina".
Done 387 Read "Erostrotheca multiformis" instead of "E. multiflormis".
Done 394 Read "Coleosporium elephantopidis" instead of "C. elephantopidis".

